<u>c) Amendments to the Claims</u>

Original claims 1-8, reproduced below, remain in the case. Please amend claims 1 and 2 as indicated.

1. (Currently Amended) A method of real-time testing for the presence of an analyte <u>in an environment</u>, ~~wherein is provided a sample,~~ comprising the steps of:

    (a) obtaining a colorimetric indicator that has been reversibly incorporated into a binding protein, said binding protein having an active site <u>at which the analyte will bind if present</u> ,~~and~~ said colorimetric indicator being reversibly bound at said active site <u>to form a complex</u>;

    (b) exposing said <u>complex</u>~~colorimetric indicator and said binding protein~~ to <u>said environment</u>~~the sample~~;

    (c) ~~determining whether said colorimetric indicator has been displaced from said binding protein by~~ measuring at least one spectral value of said colorimetric indicator ~~and said binding protein~~; and,

    (d) determining from any spectral value so measured whether <u>said colorimetric indicator has been displaced from said binding protein and, thus, whether</u> or not said analyte is present within said <u>environment</u>~~sample~~.

2. (Currrently Amended) A method according to Claim 1, wherein step (a) includes the step of immobilizing said <u>complex</u>~~colorimetric indicator and said binding protein~~ on a surface.

3. (Original) A method according to Claim 1, wherein said colorimetric indicator is a
   porphyrin.

4. (Original) A method according to Claim 1, wherein said binding protein is AChE.

5. (Original) A method according to Claim 2, wherein said surface is a microscope slide.

6. (Original) A method according to Claim 1, wherein two spectral values are measured.

7. (Original) A method according to Claim 6, wherein a first of said two spectral values is
   measured at about 402 nm and the other at about 442nm.

8. (Original) A method according to Claim 1, wherein step (d) includes the steps

   (d1)   obtaining at least one pre-exposure spectral measurement of said colorimetric
          indicator and said binding protein before exposure to the sample,

   (d2)   calculating at least one numerical difference between said at least one measured
          spectral values and said at least one pre-exposure spectral measurements.